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10/579,790	05/18/2006	Yoshiyuki Takase	Q94561	7397	
22373. 7590 01/08/2010 SUGHRUE MION, PLLC 2100 PENNSYL VANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			EXAM	EXAMINER	
			BUIE-HATCHER, NICOLE M		
			ART UNIT	PAPER NUMBER	
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# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

sughrue@sughrue.com PPROCESSING@SUGHRUE.COM USPTO@SUGHRUE.COM

# Application No. Applicant(s) 10/579,790 TAKASE ET AL. Office Action Summary Examiner Art Unit NICOLE M. BUIE-HATCHER 1796 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 23 September 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration. 5) Claim(s) 1-5 is/are allowed. 6) Claim(s) 7-10 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (FTO/SB/08)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application.

#### DETAILED ACTION

#### Response to Amendment

The amendment filed 09/26/2009 has been entered. Claims 1-5 and 7-10 remain pending.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Buckmaster (US 5,045,605).

Regarding claim 7 and 9, Buckmaster discloses melt-processible fluorocopolymers, such as tetrafluoroethylene/hexafluoropropylene copolymers or tetrafluoroethylene/perfluoropropyl vinyl ether with stable -CF<sub>2</sub>H groups (Abstract, Examples 4

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and 5). Ammonium persulfate is used as the initiator in Example 1. The introduction of ammonium perfluorocaprylate may be used as the dispersing agent if the polymerization medium is water (Example 1). Alkali or alkaline earth metals are not present in the polymerization process. In Table 5 and 6, when dimethylamine is used as the treating agent there are less than 5 or no unstable end groups present.

However, Buckmaster does not disclose the volatile matter index. The Office realizes that all of the claimed effects or physical properties are not positively stated by the reference(s). However, the reference(s) teaches all of the claimed ingredients, number of unstable end groups, and absence of alkali or alkaline earth metals (See Applicants' response filed 06/09/2009 on page 7). Therefore, the claimed effects and physical properties, i.e. volatile matter index would implicitly be achieved by a composition with all the claimed ingredients. If it is the applicant's position that this would not be the case: (1) evidence would need to be provided to support the applicant's position; and (2) it would be the Office's position that the application contains inadequate disclosure that there is no teaching as to how to obtain the claimed properties with only the claimed ingredients.

Regarding claim 8, Buckmaster discloses a fluoropolymer obtained by emulsion polymerization (C4/L22-30).

Regarding claim 10, in Example 1, Buckmaster discloses a tetrafluoroethylene/hexafluoropropylene copolymer with 12.6 weight percent of HFP and therefore 87.4 weight percent of TFE which meets the claimed ranges of the monomeric units. Application/Control Number: 10/579,790 Page 4

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# Response to Arguments

Applicant's arguments filed 09/23/2009 have been fully considered and are substantially persuasive. The following comments apply:

A) Applicants' argument that the number of unstable groups in Carlson is more than 20 unstable (page 5) is persuasive. Therefore the previous rejection of claims 7-10 is withdrawn over Carlson.

B) Applicants' argument that Buckmaster does not teach or suggest that the fluoropolymer is subjected to melt-kneading in a kneader comprising a stabilization treatment zone (page 6) is not persuasive. Regarding the method limitations, the examiner notes that even though a product-by-process is defined by the process steps by which the product is made, determination of patentability is based on the product itself. *In re Thorpe*, 777 F.2d 695, 227 USPQ 964 (Fed. Cir. 1985). As the court stated *in Thorpe*, 777 F.2d at 697, 227 USPQ at 966 (The patentability of a product does not depend on its method of production. *In re Pilkington*, 411 F. 2d 1345, 1348, 162 USPQ 145, 147 (CCPA 1969). If the product in a product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process). See MPEP § 2113.

C) In response to applicant's argument that Buckmaster has a high volatile matter index expected to be well outside the scope of the claimed invention, the fact that applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious.
See Ex parte Obiava, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985). Furthermore, Buckmaster

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discloses similar components of the claimed invention, therefore for the volatile matter index would be expected to be similar to the claimed range, absent objective evidence to the contrary.

D) Applicants' argument that the fluoropolymer of Buckmaster has a high volatile matter index expected to be well outside the scope of claim 7 (page 7) is not expected. The arguments of counsel cannot take the place of evidence in the record. *In re Schulze*, 346 F.2d 600, 602, 145 USPQ 716, 718 (CCPA 1965). See MPEP § 716.01 (c).

### Allowable Subject Matter

Claims 1-5 are allowed.

## Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NICOLE M. BUIE-HATCHER whose telephone number is (571)270-3879. The examiner can normally be reached on Monday-Thursday with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on (571)272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark Eashoo/ Supervisory Patent Examiner, Art Unit 1796 /N. M. B./ Examiner, Art Unit 1796 12/31/2009